

ABSTRACT

1 A motion picture film projector including a lamp house
2 section having a lamp bulb and a reflector; a head
3 section located in front of the lamp house section; and
4 an optical member located proximate a junction between
5 the lamp house section and the head section. The optical
6 member has infrared filtering coatings on both a front
7 side and a rear side of the optical member. The
8 reflector has a rear aperture with a portion of the lamp
9 bulb extending therethrough. The rear aperture is larger
10 than a center outer diameter of the lamp bulb. The lamp
11 bulb and the reflector are sized and shaped such that an
12 operator looking rearward from a front side of the lamp
13 bulb and reflector can see a general ring shaped gap
14 between the reflector and the lamp bulb when the lamp
15 bulb is aligned relative to the reflector.